Info Printouts and Parameters

Off-line menu structure 3
Important setting instructions 3
Area of application 3
Operation parameter menu 4
TTX / TDI / TTK 4
TTX laminator 5
Parameter menu TTX (not TTX 350) 6
Parameter menu TTX 350 8
Parameter menu TTK 10
Parameter menu TDI 12
Parameter menu ALX720 (printer part) 14
Parameter menu TTX Laminator 16
INFO Info printouts 17
STA0 Report parameter settings 17
STA1 Logo buffer, memory report 17
STA2 Font library 18
STA3 Service report 18
STA4 Report parameter settings/service 19
DOT1 Print test for punched material 19
DOT2 Print test for endless material 19
PRTP Printer parameters 20
PSPD Print speed 20
MTYP Material type 20
MLEN Setting material length 20
MWID Setting material width 21
CLAB Setting change label 21
CLEN Setting label length 21
PUNO Gap offset 22
BCHI Bar code height 22
UPCA Bar code plain copy line 22
CSPD Cut speed 23
CPOS Cut position 23
ASPD Applicator speed 23
ADIS Applicator distance 23
MPOS Dispense position 24
CWID Cut width 24
CDIS Double cut function 24
XPOS Print offset on the X-axis 26
YPOS Print offset on the Y-axis 26
FBY Colour print offset equalisation 26
SSPD Feed without printing 27
GAP Gap detection mode 27
CMOD Cut mode 28
CBAK Reverse step after cut 30
CLST Ejection of last printed labels 31
DMOD Dispensing mode 31
LAMP Laminator parameters 32
LSPD Laminating speed 32
LADJ Setting the laminate dancer 32
MADJ Setting the material dancer rod 32
IFAC Interface parameters 33
PORT Interface type 33
SPOL Spooler size 33
BMOD Spooler mode 33
<20H Filter for characters smaller than 20H 33
BAUD Data transfer speed 34
PARI Parity 34
DBIT No. of data bits 34
SBIT No. of stop bits 34
HAND Data synchronisation 34
PRID Printer identification no. 34
SYSP System parameters 35
EMUL Print interpreter 35
NACH Character sets 36
SENS Photoelectric switch, beginning of label 36
PUNS Material photoelectric switch 37
FMOD Ribbon automatic economy 37
L-R LH/RH machine version 38
SW01 Loop control printer 38
SW02 Lopp control dispenser 38
OMOD On-line/off-line stand-by 39
MMOD Material type, single label/Leporello 39
LMOD Laminate end 39
LPOS Label position of the first label 39
SECF Activation Second Feed 39
MPSF Feed length Second Feed 40
SMOD Single job mode 40
D_HD Short/long dispensing edge 40
FMOT Feed motor on/off 40

EXTR Single start / stacker 40
SGMO Edge input signal 41
CODE Password 42
HRES Print head resistance 43
HEAT Lowering the head temperature .. 43
HVOF Offset for head voltage 44
EXLO Expand logo 44
CLCK Realtime clock 44
USMD Single start 45
LREP Routine gap sensing 45
COPY Reprint last printed label 45
CSET Using character sets 45
MEND Material end detection 46
SCAN Scanner mode 46
SERR No. of permitted read errors 46
MSET Threshold material end detection 46
PEPH Peripheral devices 47
JCLR Delete print job 50
SCLR Delete printer memory 50
OTHR Special functions (Others) 51
DOWN Downloading logo/characters 51
LCLR Formatting logo card 51
CCLR Formatting colour card 52
ICLR Formatting image card 53
ADJS Scanner adjustment 54
MCHK Memory check 54
SCHK Sensor check 54
PCHK Demo print 57
FACT Factory settings 58
SERV Only for Service 58
NULL Only for Service 58
HADJ Only for Service 58
ACSC Only for Service: Scanner 58
HVxx Print head temperature 59
Parameterlist in alphabetical order 60
Index 61

Off-line menu structure

Important setting instructions

You can set/alter the different parameters of the printer and activate/deactivate options in the off-line mode.

➠ With some parameters, false settings can result in the device being damaged (e. g. if the print head temperature is too high). During formatting, and with other settings, data and/or print orders are also deleted.

➠ Pay attention to the corresponding notes in the following description to ensure that no damage occurs!

Area of application

This description of the info printouts and parameters applies

– for all the devices shown in the header bar
  and
– for the options available for this device.

❍ The assignment to the options (table) is given in the parameter menus (overviews).

Standard parameters The standard parameters (1) are for determining the basic settings of any one device type. The device families (TTX, TDI, TTX Laminator) differ from one another with regards to the available standard parameters.

Options The parameters for the options only appear in the display if the corresponding option or firmware has been installed.

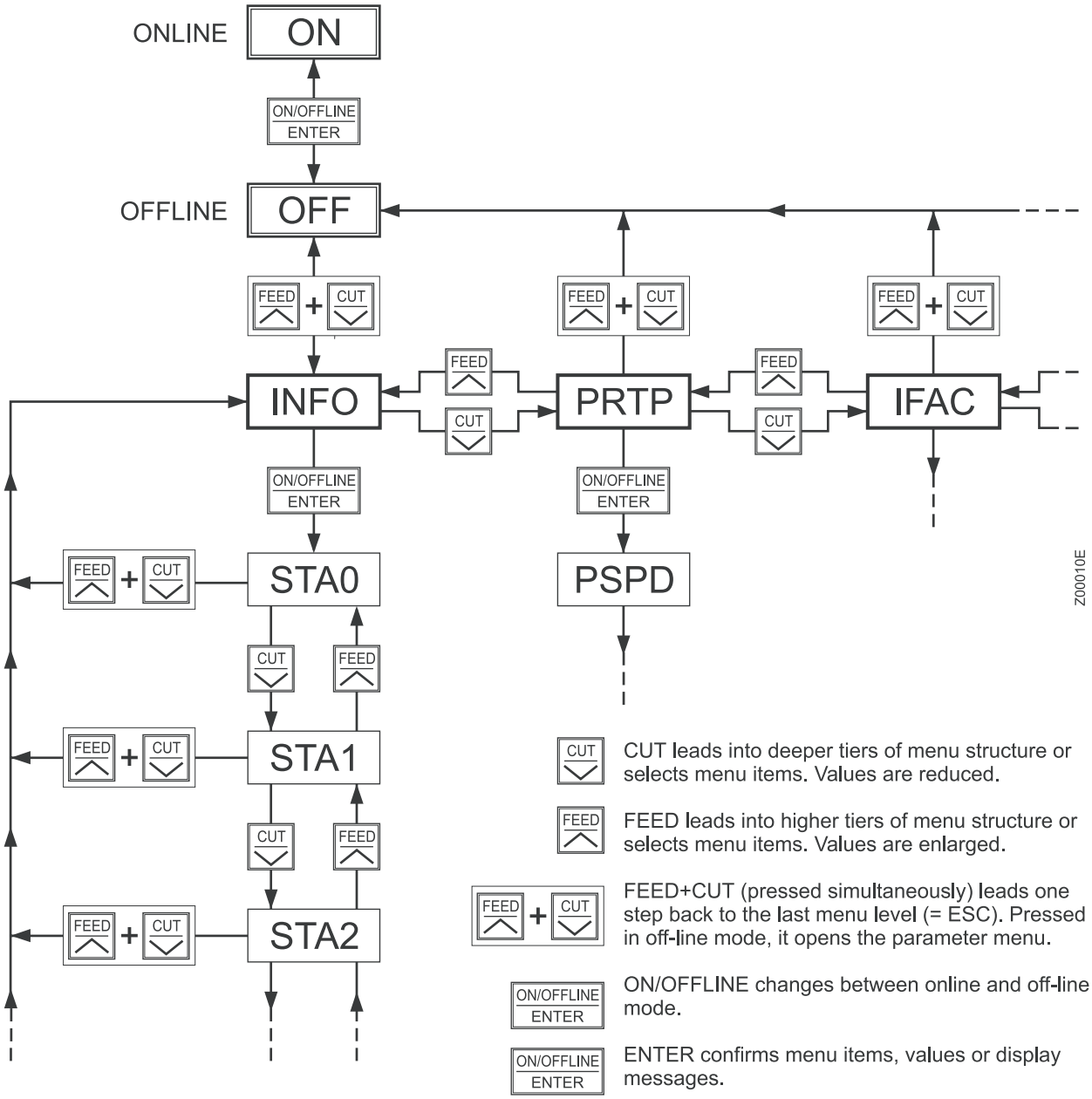
Laminator The laminator is a special option with its own display and parameter menu. Its standard parameters correspond only in part to the standard printer parameters.

❍ More detailed information about an option can be found in the manual for this option.

Operation parameter menu

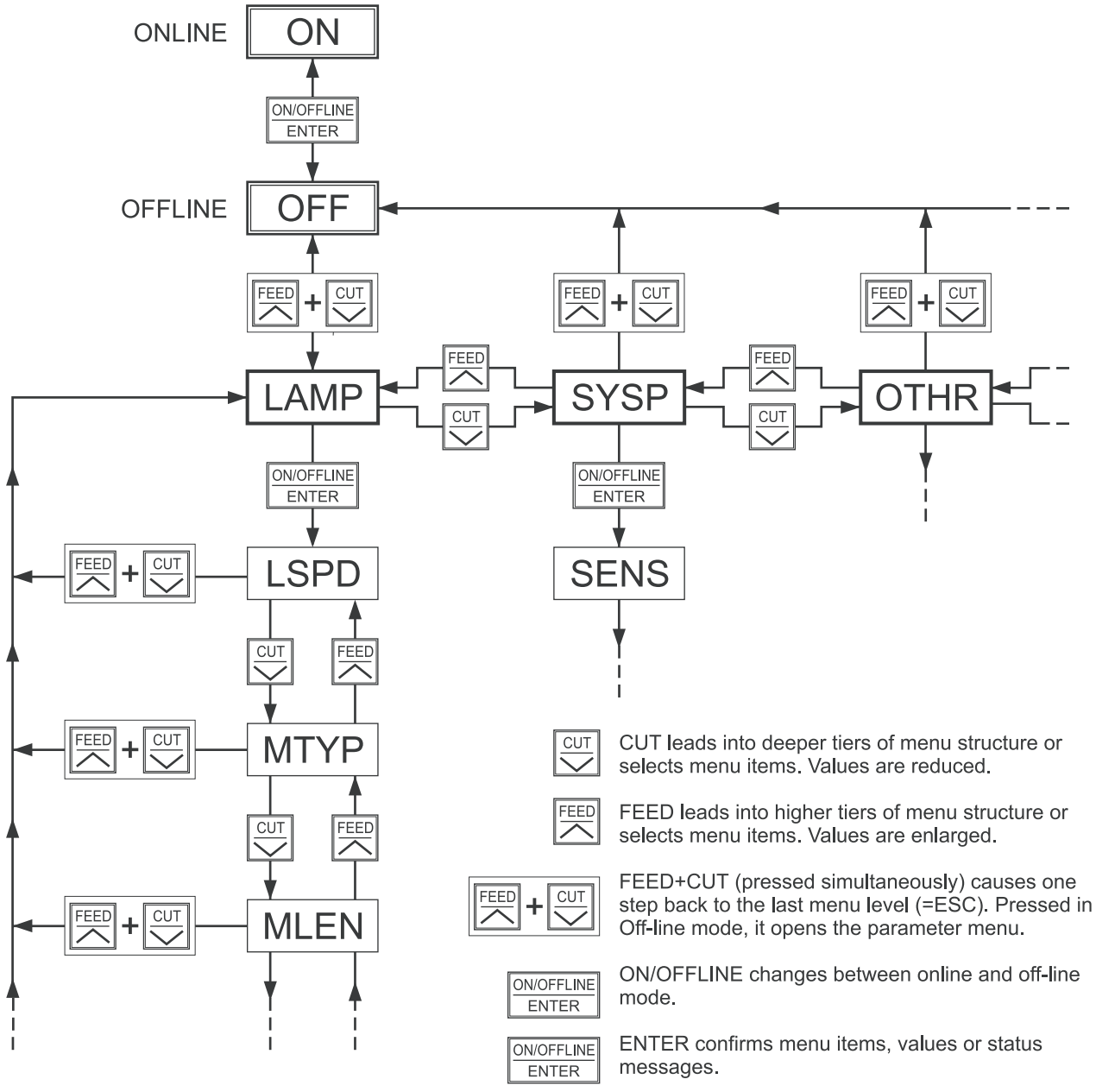
TTX / TDI / TTK

The following illustration shows the operating principle of the parameter menu on control units with the square buttons CUT, FEED and ON/OFFLINE.


ONLINE
ON
ON/OFFLINE ENTER
OFFLINE
OFF
FEED + CUT
INFO
PRTP
IFAC
FEED
CUT
ON/OFFLINE ENTER
STA0
STA1
STA2
PSPD
Z00010E
CUT leads into deeper tiers of menu structure or selects menu items. Values are reduced.
FEED leads into higher tiers of menu structure or selects menu items. Values are enlarged.
FEED+CUT (pressed simultaneously) leads one step back to the last menu level (= ESC). Pressed in off-line mode, it opens the parameter menu.
ON/OFFLINE changes between online and off-line mode.
ENTER confirms menu items, values or display messages.

TTX laminator

The following illustration shows the operating principle of the parameter menu on control units with the square buttons CUT, FEED and ON/OFFLINE.


ONLINE
ON
ON/OFFLINE ENTER
OFFLINE
OFF
FEED + CUT
LAMP
SYSP
OTHR
FEED
CUT
ON/OFFLINE ENTER
LSPD
SENS
MTYP
MLEN
CUT leads into deeper tiers of menu structure or selects menu items. Values are reduced.
FEED leads into higher tiers of menu structure or selects menu items. Values are enlarged.
FEED+CUT (pressed simultaneously) causes one step back to the last menu level (=ESC). Pressed in Off-line mode, it opens the parameter menu.
ON/OFFLINE changes between online and off-line mode.
ENTER confirms menu items, values or status messages.

Parameter menu TTX (not TTX 350)

OFF

INFO	**PRTP**	**IFAC**	**SYSP**	**JCLR**	**SCLR**	**OTHR**
STA0	PSPD	PORT	EMUL			DOWN
STA1	MTYP	SPOL	NACH			LCLR
STA2	MLEN	BMOD	SENS			CCLR 6
STA3	MWID	<20H	PUNS			ICLR 8
DOT1	CLAB	BAUD	FMOD			ADJS 5
DOT2	CLEN	PARI	OMOD			MCHK
	PUNO	DBIT	SMOD			SCHK
	BCHI	SBIT	D_HD 4			PCHK
	UPCA	HAND	FMOT 4			FACT
	CSPD 2	PRID	EXTR			SERV 7
	CPOS 2		SGMO			NULL 7
	ASPD 3		CODE			HADJ 7
	ADIS 3		HRES			ACSC 7
	MPOS 4		HEAT			
	CWID 2		EXLO 9			
	CDIS 2		HVOF			
	XPOS		CLCK			
	YPOS		USMD			
	FBY 6		LREP			
	SSPD		COPY			
	GAP		CSET			
	CMOD 2		MEND			
	DMOD 4		SCAN 5			
			SERR 5			
			PEPH			

	Standard	6	Colour option only

2	Cutter only	7	For service only
3	Dispenser/applicator only	8	Image card software only
4	Dispenser only	9	Only with 8dot-emulation-firmware (z.B. 1E42)
5	Scanner only	10	

Parameter menu TTX 350

OFF

INFO	**PRTP**		**IFAC**	**SYSP**		**JCLR**	**SCLR**	**OTHR**	
STA0	PSPD		PORT	EMUL				DOWN	
STA1	MTYP	5	SPOL	NACH				LCLR	
STA2	MLEN		BMOD	SENS				MCHK	
STA3	MWID		<20H	PUNS				SCHK	
DOT1	CLAB		BAUD	FMOD				PCHK	
DOT2	CLEN		PARI	OMOD				FACT	
	PUNO		DBIT	SMOD				SERV	6
	BCHI		SBIT	EXTR	5			NULL	6
	UPCA		HAND	SGMO	5				
	CSPD	2	PRID	CODE					
	CPOS	2		HRES					
	MPOS	4		HVOF					
	CWID	2		CLCK					
	CDIS	3		USMD					
	XPOS			LREP					
	YPOS			CSET					
	SSPD			MEND					
	GAP			MSET					
	CBAK	2		PEPH					
	CLST	2							

	Standard	6	Only for Service

2	Only with cutter or stacker	7	
3	Only with cutter	8	
4	Only with dispenser or tear-off edge	9	
5	Not with dispenser	10	

Parameter menu TTK

OFF

INFO	**PRTP**		**IFAC**	**SYSP**	**JCLR**	**SCLR**	**OTHR**	
STA0	PSPD		PORT	EMUL			DOWN	
STA1	MTYP		SPOL	NACH			LCLR	
STA2	MLEN		BMOD	SENS			MCHK	
STA3	MWID		<20H	PUNS			SCHK	
STA4	CLAB		BAUD	FMOD			PCHK	
DOT1	PUNO		PARI	OMOD			FACT	
DOT2	BCHI		DBIT	SMOD			SERV	7
	UPCA		SBIT	EXTR			NULL	7
	CSPD	2	HAND	SGMO			HADJ	7
	CPOS	2	PRID	CODE				
	CWID	2		HRES				
	CDIS	2		HEAT				
	XPOS			HVOF				
	YPOS			CLCK				
	SSPD			USMD				
	GAP			LREP				
	CMOD	2		CSET				
	CBAK	4		MEND				
	CLST	2		PEPH				

2	Cutter only	7	For service only
3		8	
4	Dispenser only	9	
5		10	

Parameter menu TDI

OFF

INFO	**PRTP**	**IFAC**	**SYSP**	**JCLR**	**SCLR**	**OTHR**
STA0	PSPD	PORT	EMUL			DOWN
STA1	MTYP	SPOL	NACH			LCLR
STA2	MLEN	BMOD	SENS			CCLR 6
STA3	MWID	BAUD	PUNS			ICLR 8
DOT1	PUNO	PARI	FMOD			ADJS 5
DOT2	BCHI	DBIT	OMOD			MCHK
	UPCA	SBIT	SMOD			SCHK
	XPOS	HAND	MMOD			PCHK
	YPOS	PRID	LPOS			FACT
	SSPD		SECF			SERV 7
	GAP		MPSF			NULL 7
			EXTR			HADJ 7
			CODE			ACSC 7
			HRES			
			HEAT			
			HVOF			
			CLCK			
			USMD			
			LREP			
			COPY			
			CSET			
			MEND			
			SCAN 5			
			SERR 5			

	Standard	6	Colour option only

2		7	For service only
3		8	Image card software only
4		9	
5	Scanner only	10	

Parameter menu ALX720 (printer part)

OFF

INFO	**PRTP**	**IFAC**	**SYSP**	**JCLR**	**SCLR**	**OTHR**	
STA0	PSPD	PORT	EMUL			DOWN	
STA1	MLEN	SPOL	NACH			LCLR	
STA2	MWID	BMOD	PUNS			MCHK	
STA3	PUNO	<20H	FMOD			SCHK	
DOT1	BCHI	BAUD	L-R			PCHK	
DOT2	UPCA	PARI	SW01			FACT	
	XPOS	DBIT	SW02			SERV	7
	YPOS	SBIT	OMOD			TEST	7
	SSPD	HAND	CODE			SENS	7
	GAP	PRID	HRES			NULL	7
			HEAT			HADJ	7
			HVOF				
			CLCK				
			LREP				
			CSET				
			MEND				

7	For service only		

Parameter menu TTX Laminator

OFF

LAMP	**SYSP**	**OTHR**
LSPD	SENS	SCHK
MTYP	PUNS	FACT
MLEN	EXTR	
PUNO	CODE	
CSPD 2	LREP	
CPOS 2	PEPH	
CWID 2		
GAP		
LADJ		
MADJ		

	Standard	6	
2	Cutter only	7	
3		8	
4		9	
5		10	

INFO Info printouts

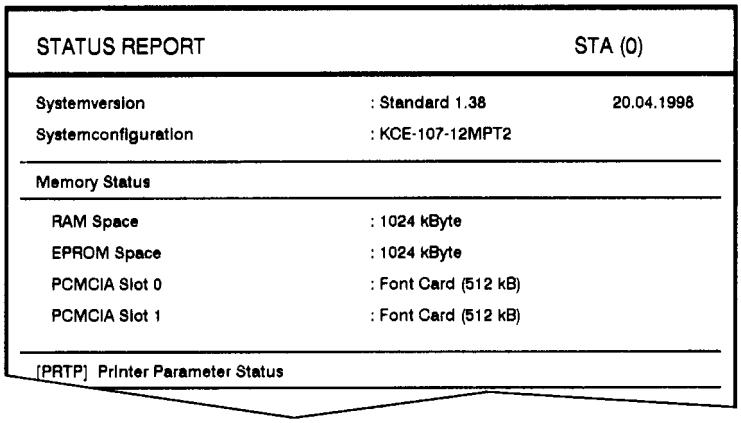
A material width of 100 mm (STA4: 50 mm) is necessary to print the reports. The status print out STA0 to STA3 is approx. 200 mm long.

Printing of individual reports can be deactivated for certain peripheral options. For detailed information refer to the description of parameter SYSP/PEPH.

STA0 Report parameter settings

A protocol can be printed to provide an overview of customer-specific parameter settings.

Example



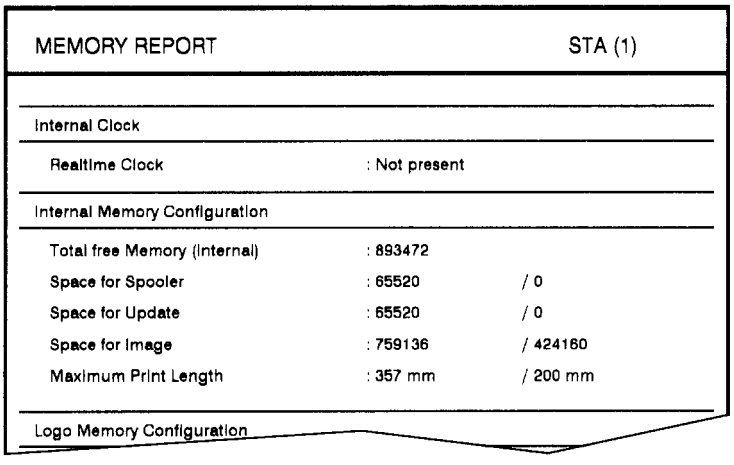
STATUS REPORT		STA (0)
Systemversion	: Standard 1.38	20.04.1998
Systemconfiguration	: KCE-107-12MPT2	
Memory Status		
RAM Space	: 1024 kByte	
EPROM Space	: 1024 kByte	
PCMCIA Slot 0	: Font Card (512 kB)	
PCMCIA Slot 1	: Font Card (512 kB)	
[PRTP] Printer Parameter Status		

STA1 Logo buffer, memory report

A protocol of the assigned logo addresses can be printed out for managing the logo memory.

The amount of free memory capacity available for the logo data is dependent on the card being used. If such a card has not been inserted, the free internal memory capacity of the printer is made available for storing the logo.

Example



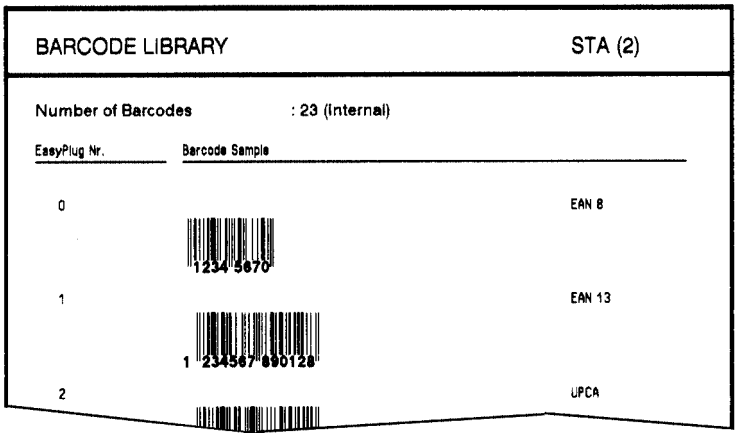
MEMORY REPORT		STA (1)
Internal Clock		
Realtime Clock	: Not present	
Internal Memory Configuration		
Total free Memory (internal)	: 893472	
Space for Spooler	: 65520	/ 0
Space for Update	: 65520	/ 0
Space for Image	: 759136	/ 424160
Maximum Print Length	: 357 mm	/ 200 mm
Logo Memory Configuration		

STA2 Font library

Print samples of all installed characters, bar codes and line samples.

❍ For a complete list of characters refer to topic section "Internal Fonts".

Example



STA3 Service report

Test printout about feed roller, print head and service parameters.
Preferably reel material with a width of approx. 100 mm should be used.

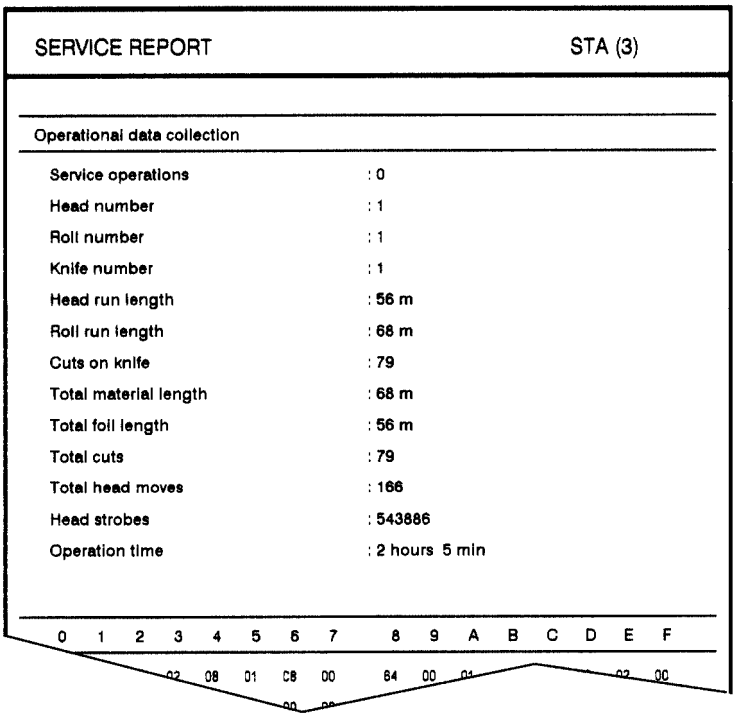

SERVICE REPORT
STA (3)
Operational data collection
Service operations : 0
Head number : 1
Roll number : 1
Knife number : 1
Head run length : 56 m
Roll run length : 68 m
Cuts on knife : 79
Total material length : 68 m
Total foil length : 56 m
Total cuts : 79
Total head moves : 166
Head strobes : 543886
Operation time : 2 hours 5 min
0 1 2 3 4 5 6 7 8 9 A B C D E F
02 08 01 C8 00 64 00 01 02 00

Fig. 1 Example of the Service Report STA3.

Counter	Max. value
Service Operations	255
Head number	
Roll number	
Knife number	
Head run length	131 km
Roll run length	8.800 Jahre
Cuts on knife	4.300.000.000
Total material length	430.000 km
Total foil length	430.000 km
Total cuts	4.300.000.000
Total head moves	4.300.000.000
Head strobes	4.300.000.000
Operation time	8.800 Jahre

STA4 Report parameter settings/service

(Only TTK)
Report STA4 prints the most important data contained on STA0 and STA3 on 50 mm wide material.

DOT1 Print test for punched material

Special pattern for highlighting absent dots on the thermal bar. The test is concluded using the ENTER button.

DOT2 Print test for endless material

Special pattern for highlighting absent dots on the thermal bar. The test is concluded using the ENTER button.

PRTP Printer parameters

PSPD Print speed

The print speed (material feed) can be adjusted according to the ribbon and material combination being used in order to optimise the contrast depth and the density of the print image.

PS 4 Minimum print speed = 4 inches per second

PS 12 Maximum print speed = 12 inches per second
(not with TTX 350/OCELOT)

Progression Unit interval = 1 inch/s

MTYP Material type

Definition of the materials used. A distinction is made between reel material and punched material (hole punches, self-adhesive material with register punch holes). The detected punch position corresponds to the start of the label.

The value is overwritten by the appropriate Easy Plug command when sending label formats.

ENDL If material without gaps is to be used

PUN If material with gaps is to be used

MLEN Setting material length

The material length (label length) is the distance between the gaps, measured from the front edge (beginning) of a label to the front edge of the next label.

The value is overwritten by the appropriate Easy Plug command when sending label formats.

L 5 Minimum length input = 5 mm

Lxxx Maximum length input (depending on print head width and memory configuration, see also STA0)

Progression Unit interval = 1 mm

MWID Setting material width

Wxxx

Setting of the material width. Important for mirroring the printout at the center line (Easy Plug command #Z), because the centre line is calculated as the middle of the set material width.

Setting range: min. width (depending on the device) up to max. width (depending on print head width and memory configuration); Unit interval: 1 mm.

Printer	min. width in mm
TTX x50 / Wildcats	20
TTX 67x / Wildcats plus	20
TTK / Texxtile	15

Tab. 1 Minimal setable material width, depending on the printer type.

The parameter can be used to set the left margin, if the printer is in Lineprinter mode.

With ALX right hand devices, the setting of MWID is insignificatn.

CLAB Setting change label

A change label can be controlled either by sending the appropriate Easy Plug command (#ER), or as a standard setting at the end of every print job. The latter is achieved by setting parameter CLAB to YES.

- Continuous material: The change label is printed on and 10 mm longer.
- Punched material: A blank label is added to the last printed label.

STD Change label caused by Easy Plug command

YES Change label is produced at the end of every print job regardless of any existing Easy Plug command.

CLEN Setting label length

The change label length is the extra length added to the normal label length of the print job to separate 2 print jobs with a larger label. The change label length can only be set when using reel material. With gap material the length is always 1 label length.

C 0 Minimum extra length = 0 mm

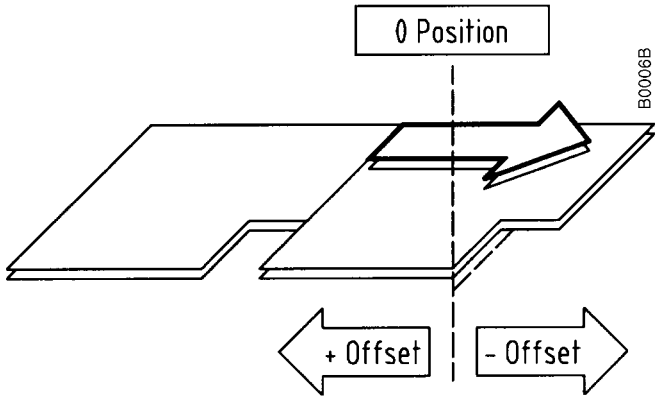
C 30 Maximum extra length = 30 mm

PUNO Gap offset

The zero position can be determined in millimeters offset in (+) or against (-) the feed direction from the detected gap position.

The value is overwritten by the appropriate Easy Plug command when sending label formats.

Pxxx xxx = -15 to 300 (TTX 350: -50 to 300); Unit interval: 1 mm



BCHI Bar code height

The barcode height can be changed by a factor of between 1 and 10 mm (BCHI factor).

B 1 Smallest progression factor

B 10 Largest progression factor

Progression Unit interval = 1 mm

The effective bar code height is calculated by multiplying the value in the label layout (mask) by the BCHI enlargement factor.

Effective barcode height = (layout value + 1) * BCHI

Example The value BCHI = B 3 is set. With the Easy Plug command in the label layout, the value /4/ is given as the bar code height (1 is standard).
Result: (4 + 1) * 3 = 15 mm
The bar code is printed with a height of 15 mm

UPCA Bar code plain copy line

The position of the first and last number in the plain-copy line can be adjusted as required.

STD The first and last character of the UPCA or the first character on the UPCE are moved upwards.

SPEC All the characters in the plain-copy line are in one line below the code.

CSPD Cut speed

Only if the cutter has been selected!

The cut speed is to be adjusted to the material thickness and strength.

CS 2 Extremely slowly; for thick and strong material

CS 3 Medium cut speed

CS 4 Extremely fast; for thin material

CPOS Cut position

Only if the cutter has been selected!
TTX 350: only if the cutter or stacker have been selected!

The cut position is identical to the detected gap position, i.e. with the start of the label. A customer-specific fine setting can be programmed using the CPOS function.

CP x x = -8 to 8 (TTK: -80 to 80); Unit interval: 0.25 mm.

Printer	max. offset	
	in feed direction	against feed direction
TTX x50 / Wildcats, TTX 67x / Wildcats plus TDI / Texxtile	-8	+8
TTX 350 / Ocelot	-60	+60
TTK / Texxtile	-80	+80

ASPD Applicator speed

Only if the dispenser and applicator have been selected!

Applicator speed unit. The maximum speed which can be set is dependent on the applicator employed in the DSPS/APPL.

AS 4 Minimum applicator speed

AS 6 Maximum applicator speed for DSPS/APPL/150S and DSPS/APPL/150L

AS 8 Maximum applicator speed for DSPS/APPL/80S and DSPS/APPL/80L

ADIS Applicator distance

Only if the dispenser and applicator have been selected!

Distance between the dispensing lip and applicator waiting position. After the dispensing procedure, the applicator lowers itself by the predefined distance, waits for the product and applies.

D xx Range: 0 to 180 mm applicator interval

MPOS Dispense position

Only if the dispenser has been selected!

Shifts the dispensing position by +/- the predefined value to ensure that the label can be peeled correctly (see Fig. 2).

P xx Range: -60 ... 0 ... 60 (equals -15 mm to +15 mm shift)

Progression Unit interval = 0.25 mm

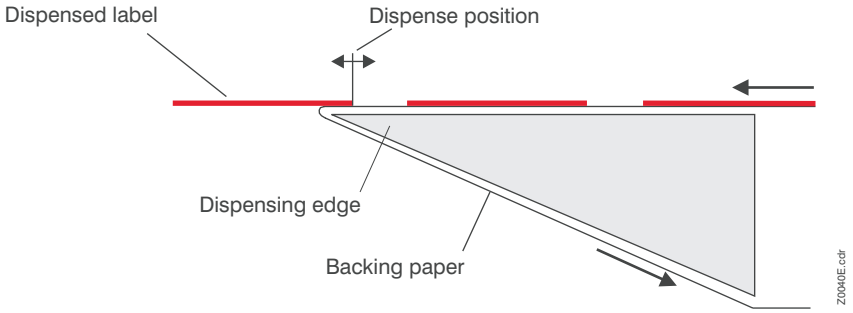


Fig. 2 Dispense position of the dispensed label.

CWID Cut width

Only if the cutter has been selected!
TTX 350: only if the cutter or stacker have been selected!

The cut width can be adjusted to the label width, ensuring that when using narrow material the print speed can be increased, or when using wide material that it is completely cut through.

W 25 Minimum cut width

Wxxx Maximum cut width

Progression Unit interval = 1 mm

CDIS Double cut function

Only if the cutter has been selected! The CDISI double cut function should not be used in conjunction with the stacker!

Joining grids or the gap area between the labels can be removed using a double cut, thereby improving the outline.

The first cut is offset by the distance set from the recognized gap position away in the feed direction, the second cut is made at the gap position.

A possible correction of the cut position (CPOS) is calculated for both cuts and must be taken into consideration.

CD 0 Normal single cut

CD xx Double cut function is activated, with input of the distance between the two cuts (1.0 to 5.0 mm, corresponds to CD 4 to CD 20)

Progression Unit interval = 0.25 mm

The smallest possible double cut distance of 1 mm must be adhered to!

XPOS Print offset on the X-axis

The zero point of the mask is moved in relation to the edge of the label on the X- axis, i.e. lengthways to the material.

XP 8 Maximum offset away from the edge of the label = +2 mm

XP 0 No offset

XP-8 Maximum offset towards the edge of the label = -2 mm

Progression Unit interval = 0.25 mm

TTX/TDI:
The setting range -24...0...+24 (-6 to +6 mm) applies for 8-dot emulation from firmware 1E42.

YPOS Print offset on the Y-axis

The zero point of the mask is moved in relation to the gap position on the Y-axis, i.e. in the feed direction.

CP8 Maximum offset in feed direction = +2 mm

YP 0 No offset

CP -8 Maximum offset opposed to feed direction = -2 mm

Progression Unit interval = 0.25 mm

TTX/TDI:
The setting range -24...0...+24 (-6 to +6 mm) applies for 8-dot emulation from firmware 1E42.

FBY Colour print offset equalisation

Equalisation of the even print offset in colour printing.

When printing on reel material, an offset may occur between the colour print jobs for one label during four-colour printing. If the offset between the individual colours and on every label is almost the same, an offset value can be entered to compensate.

F 40 Maximum offset in feed direction = +10 mm

F 0 No offset

F-40 Maximum offset opposed to feed direction = -10 mm

Progression Unit interval = 0.25mm

SSPD Feed without printing

The feed speed can be increased between print periods, thereby reducing the total print time, particularly with long labels with a minimum printed surface.

SS 4 Minimum feed speed = 4 holes per second

SS12 Maximum feed speed = 12 inches per second

Progression Unit interval = 1 inch/s

Setting In print applications with length calculating units (e.g. consecutive numbering), the value for the feed speed should not be set too high. This can help to avoid alternating between abrupt braking to 0 (zero) and acceleration to print speed.

Note When changing the print speed (PSPD), the feed speed (SSPD) is set equal to the print speed (PSPD). An alternative feed speed must be re-entered if required.

GAP Gap detection mode

AUTO AUTO mode, for material with a contrast zone = gap in the label.

AUTO is the default setting, suitable for all materials, in which a difference between labels and gap is preset at more than 2 values (see Sensor Check description).

MAN MAN mode, for material with several different contrast zone.

The range of the value automatically measured by the gap detection can be defined specifically for the label material. This allows materials with high-contrast proof points within the label to be processed, which would otherwise be measured as 'false' gaps by the system. The corresponding setting value is then equal to, or smaller than, the value measured at the actual gap.

Mxxx Mxxx is displayed (xxx = 0 to 255) after selecting the MAN parameter. The value xxx stands for the current contrast within the photoelectric switch of the material which has just been inserted. This serves to determine which material has been inserted.

A suitable threshold value can be set after confirmation with the ENTER button. A figure between 0 and 255 appears on the display, which can be altered according to the required threshold value.

Example Self-adhesive material with black bars lengthways across the label

– Reading:

Masking paper	30
Masking paper + label	60
Masking paper + label + black bars	190

– Setting value: 60

A setting value of 60 means that all readings over 60 are ignored, therefore also the reading 190 at the black bar.

CMOD Cut mode

Only if the cutter has been selected!

This is where the procedure for the label output and cut is defined.

R1:1 R1:1 mode (R = real):
The entire label surface is printable. The label is pushed forward to the cutter for cutting. After the cut, the beginning of the next label is drawn back under the print head. This reduces the output volume (in relation to a certain time).

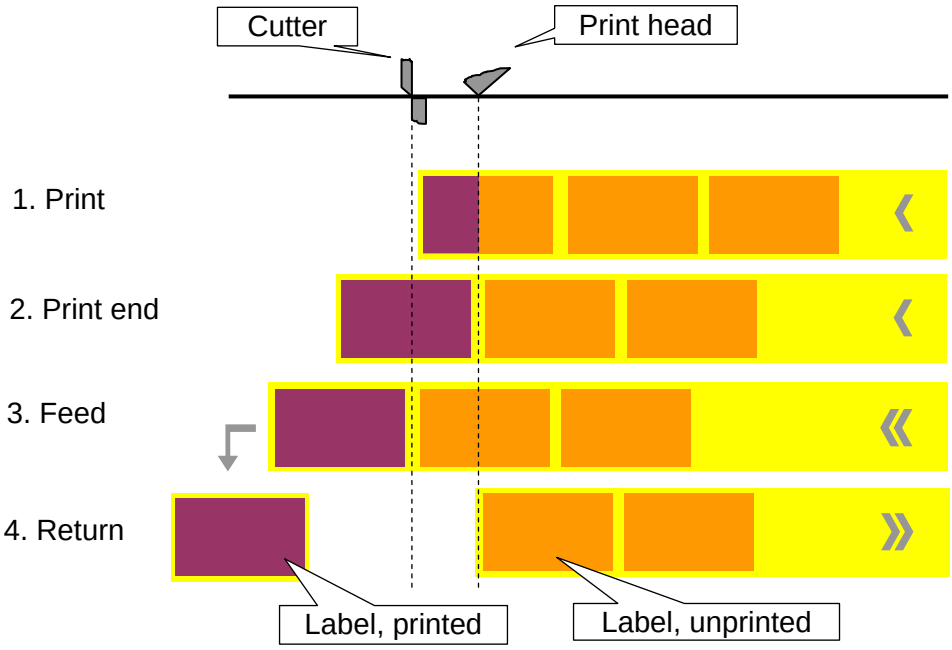


Fig. 3 Printing process in Real 1:1 mode (schematic).

BTCH

Batch mode:
The entire label surface is printable. Cutting takes place during printing. This can result in brief interruptions within the print zone of the following label. The output volume is at its maximum level.

Requirements for the batch mode are:
– Ribbon economy is not active (parameter FMOD = CONT or NONE)
– Material length >18 mm
– Number of cuts for a print job at least 2 or more

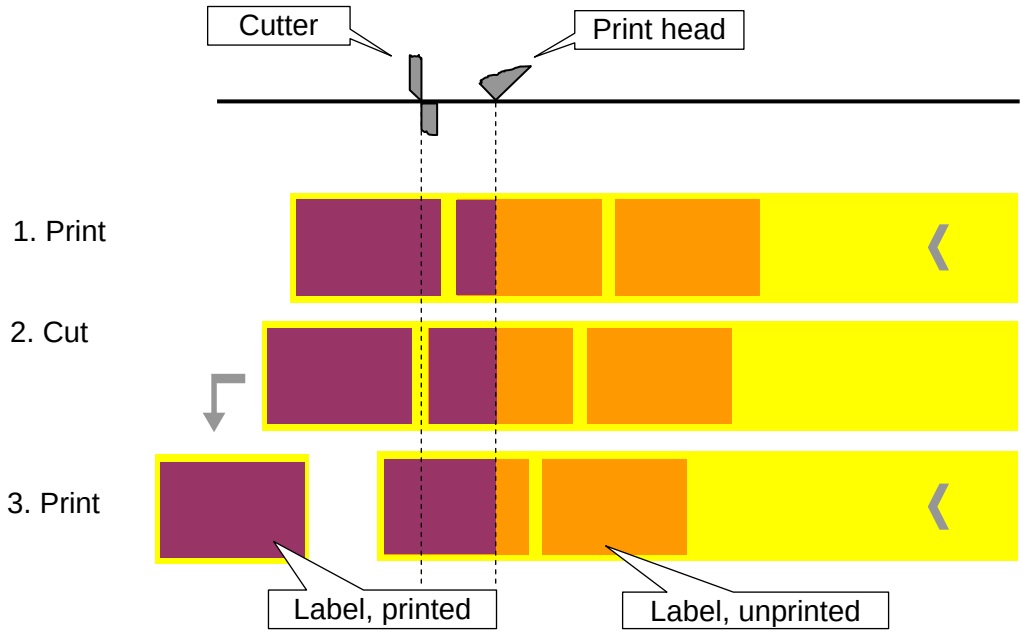


Fig. 4 Printing process in Batch mode (schematic).

N1:1

N1:1 mode (N = normal):
In N1:1 mode, cutting takes place during printing. The zero-line of the printing is shifted 18 mm in y-direction. This offset equals the distance cutter-printhead. Caused by this shifting, the first 18 mm of the label are not printable. These measurement corresponds to the distance between print head and cutter. The output volume is at its maximum level.
(The offset of the zero-line is caused historically and serves the compatibility of older printer models).

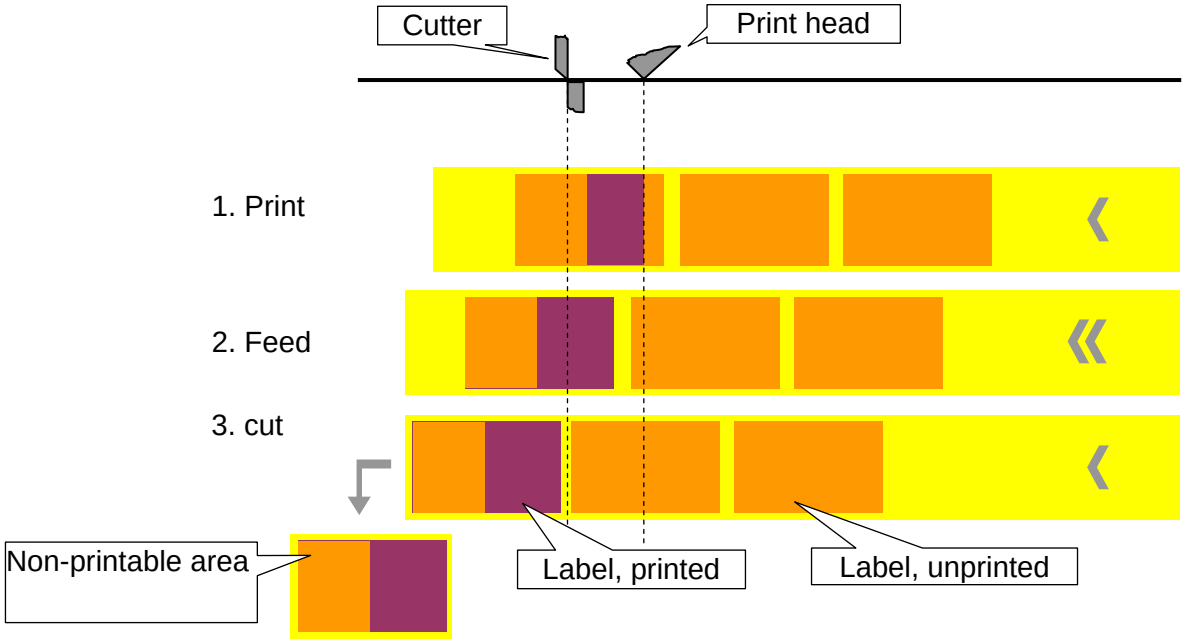


Fig. 5 Printing process in Normal 1:1 mode (schematic).

CBAK Reverse step after cut

Fundamentally, the TTX 350 cannot move the label material in the reverse direction – with one exception: if CBAK is set to YES, the feed motor reverses a few steps after every cut. Advantage: after the cut the material remains a short distance from the cutter, which reduces the noise level and improves the cut quality. Disadvantage: the printing on the edge of the label may smudge as a result of the reverse movement.

YES Reverse step after cutting activated

NO Reverse step after cutting deactivated

CLST Ejection of last printed labels

Only with TTX 350/TTK!

The command can only be selected, if a cutter function (KNIF, TCS) is activated.

The parameter CLST equals in its effect the Easy Plug command #FE.

YES The last printed label of a printjob is ejected and cut automatically.

NO Ejection function not activated.

DMOD Dispensing mode

(With activated Dispenser Option only)

N1:1 N1:1 mode (N = normal):
In N1:1 mode the label is dispensed during the printing procedure. The space from the print head to the dispensing lip is not printable (see Fig. 6).

R1:1 R1:1 mode (R = real):
In R1:1 mode the entire surface of the label is printed. After the previous label has been dispensed, the material is retracted underneath the print head and can be totally printed.

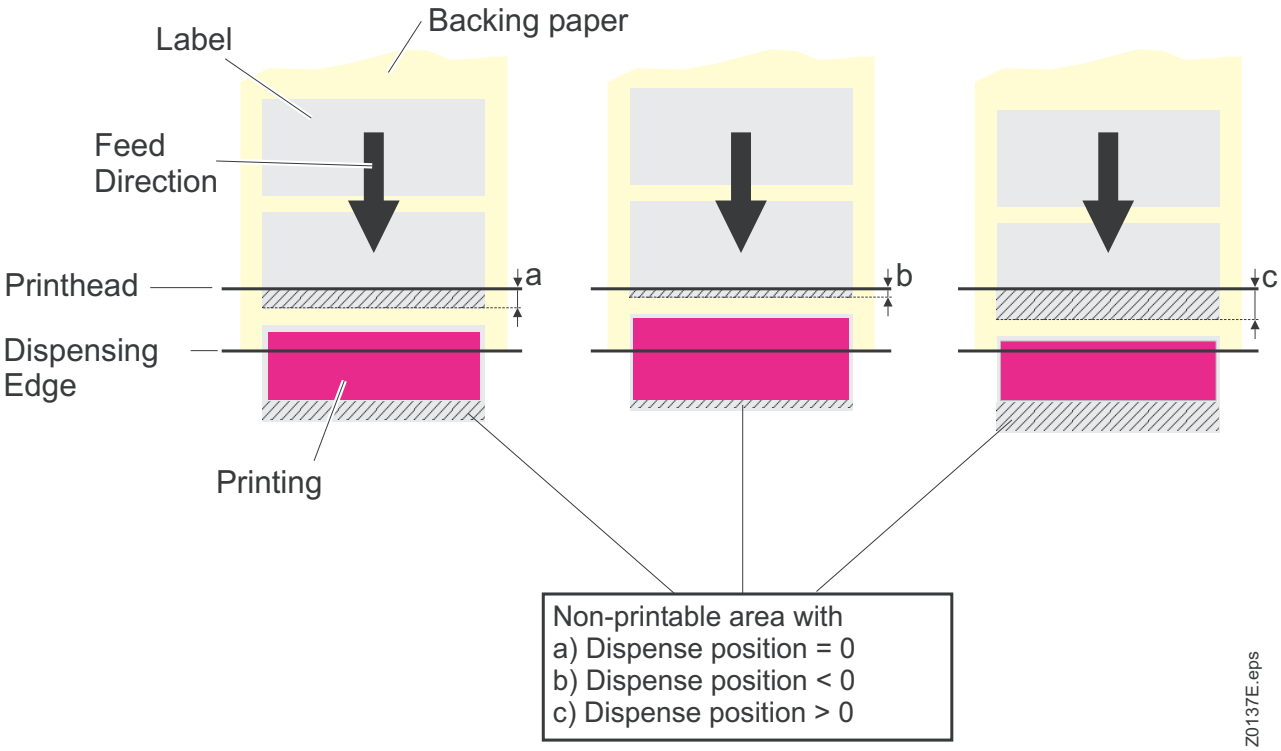


Fig. 6 The size of the not imprintable area depends on the setting of the dispense position (parameter "PRTP / MPOS").

LAMP Laminator parameters

The parameter menu of the TTX Laminator shows one specific menu item: instead of PRTP (printer parameter), the first item is LAMP (laminator parameter). LAMP is the header for some unique laminator parameters as well as some of the well known printer parameters. The specific laminator parameters are listed below.

LSPD Laminating speed

LS 4 Minimum laminating speed = 4 inches per second.

LS10 Maximum laminating speed = 10 inches per second.

Progression Unit interval = 1 inch per second

LADJ Setting the laminate dancer

(only TTX laminator)

The laminate dancer controls the laminate feed. Whether laminate feed takes place or not is dependent on the lateral deflection of the laminate dancer. The laminate dancer also governs the feed speed according to the lateral deflection. With the parameter LADJ the operator can set two lateral deflection values, LNUL and LEND. LNUL: activation of the laminate feed; LEND: deactivation of the laminate feed.

LNUL To set the activation time. With ENTER button to N xx.

N xx Value for LNUL (range 25 to 200), default value approx. 35. With ENTER button to LEND.

LEND To set the deactivation time. With ENTER button to E xx

E xx Value for LEND (range 25 to 170), default value approx. 150. With ENTER button to LADJ.

MADJ Setting the material dancer rod

(only TTX laminator)

The material dancer rod controls the material feed. Whether material feed takes place or not depends on the lateral deflection of the material dancer rod. With the parameter MADJ the operator can set two lateral deflection values, MNUL and MEND. MNUL: activation of the material feed; MEND: deactivation of the material feed.

MNUL To set the activation time. With ENTER button to N xx.

N xx Value for MNUL (range 25 to 200), default value approx. 100. With ENTER button to MEND.

MEND To set the deactivation time. With ENTER button to E xx. With ENTER button to E xx.

E xx Value for MEND (<50). With ENTER button back to MADJ

IFAC Interface parameters

PORT Interface type

RS23 Serial interface (V24/DB25, RS232)

CENT Parallel interface (Centronics)

➠ The Centronics interface is standard. This may be different with older firmware versions!

SPOL Spooler size

The memory capacity of the printer buffer can be set according to the requirements of each customer.

8KB 8 KByte (example), other values as follows:

Value	8 KByte	16 Kbyte	32 KByte	64 KByte		
Display	8KB	16KB	32KB	64KB		

➠ All data present in the printer buffer is deleted!

The maximum print format is influenced by the spooler size, provided that no RAM card is being used for memory expansion.

BMOD Spooler mode

The operating mode of the spooler can be used to enter customer-specific settings, which determine whether print series are processed individually (the interface is only ready to receive new data after the required number of labels of a single series has been printed), or whether several series of spooler print data can be received during printing.

BOFF Single print series mode

BON Multi-print series mode

<20H Filter for characters smaller than 20H

YES Filter function activated. Characters smaller than 20H are filtered out of the data flow.

NO Filter function deactivated. Characters smaller than 20H are treated as normal characters.

BAUD Data transfer speed

Speed of data transfer using the serial interface.

300 300 Baud (example), other values as follows:

Value	300	600	1200	2400	4800	9600	19200	38400
Display	300	600	1200	2400	4800	9600	192.	384.

PARI Parity

The PARI parameter defines the parity check of the data transmitted via the serial interface.

The parity bit is for checking data transmission. If the check shows an error, a corresponding message is displayed. The setting must be identical at the sender and the receiver. Normally transmission is set without a parity bit.

ODD Odd parity
A parity bit is added so that there is an odd number of 1 bits.

EVEN Even parity
A parity bit is added so that there is an even number of 1 bits.

NONE No check bit. Sending and receiving without check bit.

CLRP Check bit is always 0 (zero). Sending and receiving without parity check.

DBIT No. of data bits

This parameter can be defined in connection with both the serial and the parallel interface

7BIT 7 data bits

8BIT 8 data bits

SBIT No. of stop bits

Number of stop bits at the serial interface

1BIT 1 stop bit

2BIT 2 stop bit

HAND Data synchronisation

Synchronisation at the serial interface

RTS Data synchronisation by hardware

XON Data synchronisation by software

PRID Printer identification no.

IDxx Identification number 0 - 31 (xx = 0 - 31)

SYSP System parameters

EMUL Print interpreter

The interpreter determines the language in which the printer receives and processes data.

Easy Plug With Easy Plug the transmitted commands are printed as label text.

Lineprinter In Lineprinter and Hex Dump, the commands are printed in list form with the character set 12.

When setting Lineprinter or Hex Dump, Easy Plug commands which have not yet been processed are deleted!

EASY Easy Plug

LPRN Lineprinter (Lineprinter-similar), printout of the print commands

HEXD Printout in hexadecimal format

NACH Character sets

Individual values are allocated differently (see table) in accordance with the national character set selected.

SPEC Special character set
IBM IBM Character set

❍ For complete tables of all fixfonts characters available with setting "IBM" refer to topic section "Internal Fonts" in the printer user manual.

➠ The settings "USA" to "NORW" suit only for older 7bit applications!

USA USA
UK England
FRAN France
GER Germany
ITAL Italy
SWED Sweden
SPAI Spain
NORW Norway

decimal	**35**	**36**	**64**	**91**	**92**	**93**	**94**	**96**	**123**	**124**	**125**	**126**	**127**
ASCII	#	$	@	[	\	]	^	`	{	|	}	~	>127

Display:

USA	#	$	@	[	\	]	^	`	{	|	}	~	blank
UK	£	$	@	[	\	]	^	`	{	|	}	≡	blank
FRAN	£	$	à	°	ç	§	^	`	é	ù	è	~	blank
GER	#	$	§	Ä	Ö	Ü	^	`	ä	ö	ü	ß	blank
ITAL	≥	$	§	°	ç	é	^	ù	à	ò	è	`	blank
SWED	#	•	É	Ä	Ö	Å	Ü	é	ä	ö	å	ü	blank
SPAI	#	$	@	¡	Ñ	Ç	^	`	¿	ñ	ç	~	blank
NORW	#	$	@	Æ	¥	Å	^	`	æ	¢	å	~	blank
SPEC	*ƒ*	¢	blank	blank	¼	½	blank	blank	«	•	»	±	blank
IBM	#	$	@	[	\	]	^	`	{	|	}	~	print
	blank = space, print = printable												

SENS Photoelectric switch, beginning of label

The optional reflex photoelectric switch for labels with reflecting length markings, or the normal factory-fitted photoelectric switch for labels with transparent or register gaps (self-adhesive labels), must be defined according to the application.

NORM Transparency photoelectric switch (for gaps)

REFL Reflex photoelectric switch (for reflecting markings)

FULL Full-size photoelectric switch (not possible with activated dispenser)

PUNS Material photoelectric switch

These parameters are for adjusting the sensitivity of the material photoelectric switch.

SP x x = 1 to 8 (TTX 350, TTK: 1 to 11); Unit interval = 1

1 = Maximum sensitivity, for narrow gaps (perforations).

2 = Minimum sensitivity for clearly recognisable gaps.

Too high a level of sensitivity can lead to gaps being detected which do not even exist (on proofs, material thickness fluctuations, perforations etc.).

FMOD Ribbon automatic economy

The ribbon feed can be interrupted during print periods with the ribbon automatic economy parameter. This saves ribbon, particularly with long labels with a minimum print area. The automatic function should only be activated with unprinted areas from approx. 10 mm in length.

When using a TTK/Texxtile printer, refer to the following table for the minimum unprinted area:

8.0 dot resolution		**11.8 dot resolution**	
Print speed	Unprinted area in mm	Print speed	Unprinted area in mm
-	-	2	12
-	-	3	14,5
4	17	4	17
5	20	5	18,5
6	22	-	-
7	25	-	-
8	27,5	-	-

Tab. 2 With TTK/Texxtile printers, the required minimum unprinted area depends on the print speed.

A selection can be made between heat transfer printing and thermal printing. It is necessary to select the type of printing in order to be able to switch over the ribbon end detection.

FMOD can not be activated with parameter cut mode (CMOD) set to batch mode (BTCH).

CONT Heat transfer printing

SAVE Ribbon automatic economy (not with TTX 350/Ocelot)

Only TDI/STDI/XXtreme:

LEHU Print head at end of label, top

LEHD Print head at end of label, bottom

NONE Thermal printing (thermal direct printing)

L-R LH/RH machine version

(only ALX720/Samba)

The ALX720/Samba is available both as righthand and as lefthand version. The parameter L-R "tells" the firmware if it is ought to control a righthand or lefthand machine.

–> Setting for righthand machine

<– Setting for lefthand machine

SW01 Loop control printer

(only ALX720/Samba)

The dancer arm in the material loop between printer and dispenser triggers the printing process if it is deflected to a certain angle.

The parameter SW01 determins the trigger angle of the dancer arm.

The value should be set 20 higher than the value in the dancer arms zero position.

Sxxx xxx = approx. 60 to approx. 180, depending on manufacturing tolerances of light barrier and light barrier wedge.

Changing the trigger value:

1. Select parameter SYSP/SW01.

   Sxxx *xxx = Currently set trigger value, e.g. 100*

2, Press the NEXT button.

   SET

3. Press the ENTER button.

   Sxxx *xxx = Current value of the dancer arm light barrier.*

4. Move the dancer arm to the intended trigger position. Standard: 20 higher than the zero position. Press the ONLINE button to overtake the value.

SW02 Lopp control dispenser

(only ALX720/Samba)

Determins the dancer arm position, from which on the dispenser should not dispense a new label.

The value should be decreased, when printing long labels.

Sxxx xxx = approx. 60 to approx. 180, depending on manufacturing tolerances of light barrier and light barrier wedge.

Changing the trigger value:

1. Select parameter SYSP/SW02.

   Sxxx *xxx = Currently set trigger value, e.g. 130*

2, Press the NEXT button.

SET

3. Press the ENTER button.

Sxxx *xxx = Current value of the dancer arm light barrier.*

4. Move the dancer arm to position which should stop the dispenser. Press the ONLINE button to overtake the value.

OMOD On-line/off-line stand-by

Operating mode of the printer after it has been switched on

ONLI Printer goes immediately to on-line mode after being switched on

OFFLI Printer goes immediately to off-line mode after being switched on

MMOD Material type, single label/Leporello

The type of the label to be processed is set here

TAG Processing single-sheet labels. The magazine is being used and can be moved up or down.

LEPO Processing Leporello material (reel folded). The magazine is moved automatically up or down.

LMOD Laminate end

Switches the laminate sensor on or off. The laminate sensor detects the end of the laminate.

LCHK Laminate sensor switched on

NCHK Laminate sensor switched off

LPOS Label position of the first label

Determines the position of the first label of the new print job

HEAD Label is fed underneath the head

DEPO Label remains on the stack

SECF Activation Second Feed

Activation or deactivation of the Second Feed Option (=Short Tag Option).

Precondition to activation is a mounted Second Feed Option. If the option is mounted, it must be activated – otherwise the printer will not work properly. The option can exclusively be activated by setting this parameter – not by using a short tag!

YES Short infeed is activated

NO Short infeed is deactivated

MPSF Feed length Second Feed

Fine adjustment of the feed length for an applied and activated Second Feeder Option. TDI calculates the feed length for labels shorter than 75 mm as follows: feed length = label length – 24 mm.

Fine adjustment of the feed length can be problem solving in case of very short labels. Using parameter MPSF, the feed length can be adjusted in a range of –10 up to 10 mm.

Mxxx xxx = Adjustment value of the material feed length (-10 to 10).

SMOD Single job mode

In the single job mode (also called the stop mode) the printer stops after every job and waits until the operator restarts the printing process.

OFF Single job mode is deactivated

ON Single job mode is activated

➠ The single job mode is deactivated by default!

If a print job has been received, MAT blinks on the printer display. If a material designation has been transmitted (see Easy Plug Manual), MAT blinks in alternation with the transmitted material designation. The printing process can be initiated or continued by pressing the FEED button.

D_HD Short/long dispensing edge

(with activated Dispenser Option only)

This is for setting whether a short or a long dispensing edge is being used.

S_DE Short dispensing edge

L_DE Long dispensing edge

FMOT Feed motor on/off

(with activated Dispenser Option only)

Optionally, the feed motor can be switched off. With “OFF” selected, the feed roller runs idle.

OFF Feed motor runs idle.

ON Feed motor powered

EXTR Single start / stacker

The parameter determines, if and how an incoming signal at the - optional – single start connector will be interpreted.

NONE Signal interpretation disabled.

SNGL The signal triggers the printing of a single label. This setting may be used e.g. for printing single labels by means of a foot switch.

STAC The signal triggers the display of a status report and stops the printer. This setting may be used when using a stacker (= stacker full signal).

SGMO Edge input signal

Here the operator can set the edge control of the external input signal (e.g. stacker full or single start).

LOW Triggered when the signal changes from high to low.

HIGH Triggered when the signal changes from low to high.

CODE Password

The printer can be permanently or temporarily protected against use by unauthorised persons

COD0 All functions are inaccessible (apart from the password request)

COD1 On-line mode, only printing is possible

COD2 All functions are accessible

Access period An entered password (A or B, see diagram below) remains active until a RESET or the printer is switched on again. The access stage setting (COD0, COD1 and COD2) is permanent and remains active until the next alteration.

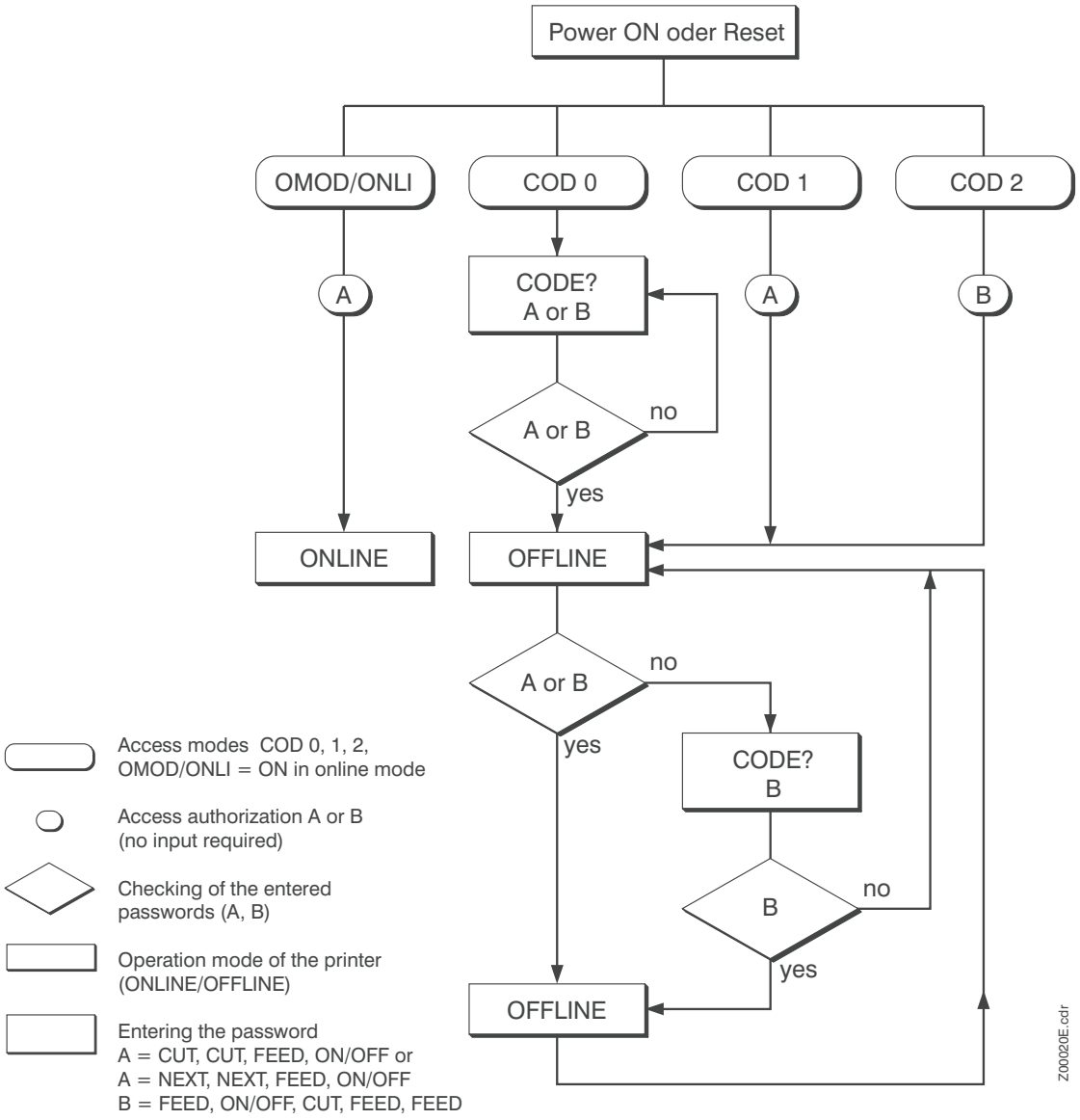


Fig. 7 Chart access authorization.

HRES Print head resistance

To achieve optimum print quality, the individual print head resistance of the thermo head being used in the device must be set once using the parameter HRES.

When replacing the print head, the resistance value of the print head (to be read off from the print head) must be entered again.

Entering a false value can damage the print head! Read off the correct value from the print head and set it accordingly.

The value set here remains when the factory settings are carried out.

xxxx Values between 1000 and 1500 are possible
(for print head with 11.4 dots/mm)

Progression Unit interval = 1

Setting the print head resistance:

Setting

1. From the print head read off the resistance value to be set and make a note of it (1000 to 1500)
2. Press FEED+CUT (NEXT) buttons in off-line mode, display: INFO
3. Press CUT (NEXT) button until SYSP is displayed
4. Press ENTER button, display: EMUL
5. Press CUT (NEXT) button until HRES is displayed
6. Press ENTER button, set value is displayed: xxxx
7. Set the noted resistance value of the print head using the FEED and CUT (NEXT) buttons
8. Press ENTER button to confirm the set value
9. Press FEED+CUT (NEXT) buttons to return to the OFF (off-line mode) display

HEAT Lowering the head temperature

Printing full-surface print images inordinately heats up the print head, and therefore also the thermal transfer ribbon. In order to ensure a uniformly good print image, the parameter HEAT is used to decrease the power supply proportionately to the temperature of the print head.

xxHR Value range: 00 to 50; unit interval: 10; default: 00

xx = 00	No temperature reduction
xx = 10, 20, ..., 80	up to 10, 20, ..., 80 percent temperature reduction if the print head is hot

HVOF Offset for head voltage

Here an offset value can be added to the value transmitted by the printer (#HV or #!H) to allow for different printer properties.

xxxx Values from -50 to +50 are possible (display -50 ... 0 ... 50)

Progression Unit interval = 1

EXLO Expand logo

Logo expansion for (TTX x50/67x-)printers operating with a 8-dot-emulation-firmware. This firmware-type can be recognized by its designation: it always starts with 1E (example: 1E42).

YES Logo expansion enabled. Logos are being expanded by factor 1.5 during transfer.

NO Logo expansion disabled.

CLCK Realtime clock

The actual time and date of the internal clock are set here. The parameter can only be called up if the optional clock has been installed.

Runtime The clock has a runtime of approx. 10 years. Leap years are automatically taken into account.

Setting The operator must set the actual time himself as described below:

- Use the ENTER button to select the individual time units (MI = minute, HO = hour etc.) in ascending order.
- Increase the selected value with the CUT (NEXT) button, or decrease it with the FEED PRIOR) button.
- After setting the YE (year) time unit, confirm the set time as a default value with the ENTER button.

MIxx To set the minutes, press the ENTER button to change to HO

HOxx To set the hour, press the ENTER button to change to DA

DAxx To set the day, press the ENTER button to change to MO

MOxx To set the month, press the ENTER button to change to YE

YExx To set the year, confirm the time setting with the ENTER button and return to CLCK display

Synchronisation Seconds (1s) and hundredths of seconds (1/100 s) cannot be selected. These are reset to 0 (zero) when the entered time has been confirmed (ENTER button when YE is displayed). However, the clock can be synchronised exactly if the ENTER button is pressed as confirmation on the stroke of the minute.

USMD Single start

(from Version 2.09)

Here the operator defines the number of labels per signal input (e.g. from a foot switch) which are to be called-up out of an active print job.

➠ The parameter EXTR must be set to SNGL if this feature is used.

Q 1 1 label is to be printed per signal printed (default), a maximum of 10 labels per signal is possible (display Q 1 to Q 10).

LREP Routine gap sensing

The maximum search path for gaps which cannot be found can be varied. In cases of difficult gap detection (i.e. minimum variation in the light transparency, gap to label) shortening the search path is to be recommended. Label loss resulting from gaps not being detected can be reduced in this way. Printing does not take place during the search process.

R 0 0 (zero) label length. A gap must be found after a printed label, otherwise an error message is given.

A maximum of 5 label lengths can be set until an error message appears.

R 5 5 label lengths. A gap must be found after a maximum of 5 label lengths, otherwise an error message is given.

COPY Reprint last printed label

After an error has occured, the last printed label can be optional reprinted. The parameter "COPY" switches this option on/off.

On Reprint the last printed label in case of an error.

Off Don´t reprint the last label.

CSET Using character sets

256 256 characters are available. OCR characters (#110 and #116) according to their definition.

224 Characters smaller than 20H cannot be used (see the table under Parameter NACH).

MEND Material end detection

The material end detection can be deactivated for processing labels with gaps longer than 15 mm, or if using material with a high fluctuation in light transparency (ST05 = material end is displayed even though material is present).

Reel material should not be processed when the material end detection is deactivated! With this setting, printing continues on the print roller after the end of the material, leading to shorter cleaning intervals or damage.

YES If the material end detection is to be activated.

NO If the material end detection is to be deactivated.

SCAN Scanner mode

RAP Read after print. The scanner (bar code read device) checks that the printed bar code can be read!

RBP Read before print. The scanner reads a bar code supplied by the infeed module (printed on a single label).

OFF Scanner function is switched off.

❍ Refer to the scanner manual for more detailed information about scanner modes.

SERR No. of permitted read errors

Faulty scanner behaviour in RAP mode (controlling of legibility after printing). Refer to the scanner manual for more detailed information.

E x x = No. of permitted read errors until a message is displayed (x = 0 to 9).

E 1 Every read error is immediately announced acoustically and visually as soon as it has been detected (printer stop).

E 4 The error is displayed after 4 consecutive read errors.

E 9 A maximum of 9 read errors can be set until the error message is activated.

MSET Threshold material end detection

Sets a threshold value for the material end detection. The following cases require a new setting:

- The punch sensor has been replaced.
- The punch sensor setting was changed (that is the setting of the appropriate potentiometer on the CPU board was changed).
- A firmware update from firmware version 1.21 or older was done.

Set the threshold value as follows:

1. Clear the punch sensor from label material.
2. Select parameter SYSP / MSET.

MSET

3. Press the ENTER button.

   xx *xx = current punch sensor value.*

4. Press the ENTER button to take over the current value.
5. Press the FEED button 2x to increase the value two steps.
6. Press the ENTER button to acknowledge the setting.

➠ The set value will not be overwritten by a factory reset or a ST01 error.

PEPH Peripheral devices

All options (with the exception of the scanner) must be selected under the option PEPH after the printer has been connected in order for it to respond to sensor queries and printer reactions.

➠ TTX 350, TTK:
Activating a cut function (KNIF, PERF, TCS) sets the cut mode (CMOD) to batch (BTCH) and the parameter CBAK to NO. Additionally, the TTK switches off the ribbon autoeconomy function (FMOD).

➠ Selecting an incorrect option can lead to malfunctions or damage!

Parameter PEPH/	Printer			
	TTX x50 / Wildcats	**TTX 67x / Wildcats plus**	**TTX 350 / Ocelot**	**TTK / Texxtile**
NONE	X	X	X	X
KNIF	X	X	X	X
PERF				X
TEAR	X	X		
RWND	X	X	X	X
INFD	X	X		
TCS	X	X	X	X
DSPS/APPL	X	X		X
DSPS/LSEN	X	X	X	
DSPS/SWCH			X	
STAC	X	X		

Tab. 3 Possible submenu points after selecting parameter PEPH – depending on the printer type.

NONE No peripheral devices connected

KNIF Cutter activated. The corresponding cut parameters can now be accessed.

After activating the Cutter, a reset will be automatically performed. As a result, the cutter turns to its home position. In case of failure, the status message ST14 appears.

➠ TTX 350: ST68 (False auxiliary mainboard) shows up after selecting KNIF at printers without periphery set-up.

PERF Perforator activated.

➠ With PERF selected, the parameters cut width (CWID) and double cut (CDIS) are not accessible.

TEAR Tear-off edge activated.

❍ Continued next page.

RWND Rewinder enabled, direction of rotation as follows:

DIRL Direction of rotation, left

DIRR Direction of rotation, right

RADJ Rewinder adjustment:

RNUL: to set the bouncer arm resting position (final position minus 5 mm)
REND: to set the bouncer arm final position (with support leg)

➡ The difference between the displayed value for RNUL and REND must be at least 100 (see also manual Rewinder Option).

INFD Activates the Infeed module.

➡ Activating the Infeed module disables the printing of Info-printouts.

TCS Activates the Textile Cutter Stacker TCS.

➡ Selecting TCS sets the parameter cut speed (CSPD) automatically to 8 "/s (8.0 Dot printer) or 5 "/s (11.8 Dot printer), respectively.

DSPS Activates the dispenser module. The single start switch option is automatically active after the dispenser has been activated.

Set the dispenser as follows:

APPL Activates Dispenser- and Applicator-Option.

Applicator selection (S = standard, L = long):
80 S Applicator, 80 mm wide, default raise height 200 mm, max. PRPT/ASPD/AS 8
80 L Applicator, 80 mm wide, raise height 400 mm, max. PRPT/ASPD/AS 8
150S Applicator, 150 mm wide, default raise height 200 mm, max. PRPT/ASPD/AS 6
150L Applicator, 150 mm wide, raise height 400 mm, max. PRPT/ASPD/AS 6

LSEN Activates the label sensor and disactivates the options connector (SWCH).

➡ Activating the lable sensor disables the printing of Info-printouts.

SWCH Activates the options connector on the printer backside (single start) and disactivates the label sensor (LSEN).

➡ Activating the options connector disables the printing of Info-printouts.

STAC Stacker is connected.

An automatic reset is carried out after the stacker has been selected. In this procedure the stacker cutter is moved to its base position. If this is not successful, the status report ST14 is shown on the display.

JCLR Delete print job

JCLR can be used to delete the current or interrupted print job.

ENTER Press the ENTER button in order to delete the print job (accompanied by an acoustic signal)

FEED Press the FEED or CUT (NEXT) button if the print job should not be deleted

SCLR Delete printer memory

The entire spooler can be deleted with SCLR.

ENTER Press the ENTER button in order to delete the printer memory and the current print job (accompanied by an acoustic signal)

➠ All print jobs are deleted!

FEED Press the FEED or CUT (NEXT) button if the printer memory should not be deleted

OTHR Special functions (Others)

DOWN Downloading logo/characters

The printer can be fitted with PCMCIA cards.

A RAM card can be formatted as memory and then written via download. Font cards, speedo cards and database cards can be written.

❍ More detailed information can be found in the Easy Plug manual and card manual.

LCLR Formatting logo card

The printer can be fitted with PCMCIA cards.

A RAM card can be formatted as spooler or logo memory and then written with logos (0-255) using an Easy Plug command. One card is processed per function start. Only one card written with a logo can be used during printing.

Sequence

The logo card is formatted in the printer. After confirmation of the YES display, a writable card is searched for in Slot 0, then in Slot 1. If a card is found in Slot 0, it is formatted. Slot 1 is then not examined. Writable means that the card is a PCMCIA SRAM card on which the write protection has been deactivated.

After confirmation of YES, the card is overwritten, irrespective of whether it contains another valid format.

Reset

A reset automatically follows formatting. Usage of the card for printing is then determined again internally, i.e. the cards can be inserted as required once they have been written.

If a RAM card and a non-writable card are used, formatting and writing with data can take place in any order.

All data contained on the RAM card and in the spooler is deleted!
Do not insert, remove or change a card until at least 60 seconds after switching off the device!

ENTER

Press the ENTER button in order to format the RAM card.

FEED

Press the FEED or CUT (NEXT) button if the RAM card should not be formatted.

According to the selected setting, the display returns immediately, or after formatting has been completed, to the LCRL display.

If the card cannot be detected, or if it is faulty or has not been inserted, the error message LCLR/FAIL is displayed (the message is also accompanied by an acoustic signal).

CCLR Formatting colour card

The printer can be fitted with PCMCIA cards.

A RAM card can be formatted as colour memory and then written with image information. The card is used automatically! One card is processed per function start. Only one card written with image information can be used during printing.

Sequence

The colour card is formatted in the printer. After confirmation of the YES display, a writable card is searched for in Slot 0, then in Slot 1. If a card is found in Slot 0, it is formatted. Slot 1 is then not examined. Writable means that the card is a PCMCIA SRAM card on which the write protection has been deactivated.

After confirmation of YES, the card is overwritten, irrespective of whether it contains another valid format.

Reset

A reset automatically follows formatting. Usage of the card for printing is then determined again internally, i.e. the cards can be inserted as required once they have been written.

If a RAM card and a non-writable card are used, formatting and writing with data can take place in any order.

All data contained on the RAM card and in the spooler is deleted!
Do not insert, remove or change a card until at least 60 seconds after switching off the device!

If 2 RAM cards are used simultaneously (one for colour and one for e. g. characters), the colour card can be used in any slot.

ENTER

Press the ENTER button in order to format the RAM card.

FEED

Press the FEED or CUT (NEXT) button if the RAM card should not be formatted.

According to the selected setting, the display returns immediately, or after formatting has been completed, to the CCLR display.

If the card cannot be detected, or if it is faulty or has not been inserted, the error message CCLR-FAIL is displayed (the message is also accompanied by an acoustic signal).

ICLR Formatting image card

The parameter serves to format a PCMCIA SRAM card for use as image memory. Each SRAM card, which is to be used as image memory, must be formatted before being put into use!

The card must be inserted in Slot 0 (zero). A corresponding header (information) is written on the card.

➠ All data contained on the RAM card (including the old header) is deleted! Do not insert, remove or change a card until at least 60 seconds after switching off the device!

ENTER Press the ENTER button in order to format the RAM card.

FEED Press the FEED or CUT (NEXT) button if the RAM card should not be formatted.

Sequence The printer starts the formatting in Slot 0 if a writable card is found there. If a card is also found in Slot 1, this card is also formatted as image memory after confirmation.

If there are no SRAM cards in the slots, but e.g. a flash card, this error is displayed with FAIL.

Reset The system is automatically restarted after formatting has been completed.

➠ Image cards from Slot 0 cannot be exchanged for the card from Slot 1, because the card headers are different. If the wrong cards are used, they must be reformatted.

Procedure Format an image card as follows:

ICLR
1. Select menu item ICLR.

YES
2. Press the ENTER button, YES (blinking) shows format stand-by.
3. Press the ENTER button in order to format the card in Slot 0 (zero)
   or
   press the FEED or CUT (NEXT) button if the card should not be formatted.
4. After ENTER the card in Slot 0 (zero) is formatted as image memory.

SLT1
5. SLT1 (blinking) shows format stand-by in Slot 1.
6. Press the ENTER button if the card in Slot 1 should also be used as image memory
   or
   press the FEED or CUT (NEXT) button in order to break off the procedure.
7. After ENTER the header of the card in Slot 1 is overwritten.

ADJS Scanner adjustment

The scanner beam can be switched on and off manually from the menu item ADJS. The scanner can then be adjusted with a visible beam.

SON The scanner beam is switched on.

SOFF The scanner beam is switched off.

➠ Scanner adjustment may only be carried out by authorised Service personnel! Refer to the scanner manual for more detailed information.

MCHK Memory check

5 memory areas can be tested (memory check):

Test	Stages	Area
MEMO	BNK0 to BNKx	Test main memory (RAM)
FON0	BNK0 to BNKx	Character generator area 0 (zero) (ROM)
FON1	BNK0 to BNKx	Character generator area 1 (not yet used)
CAD0	Card/Slot 0	Only RAM cards
CAD1	Card/Slot 1	Only RAM cards

After the test has been started, the individual modules are checked in sequence. Each stage is confirmed on the display with OK and a short beeping tone.

Testing is stopped if an error occurs. An error is reported with a blinking display and a continuous tone. The error message can be acknowledged by pressing any button.

ENTER Press the ENTER button in order to start the first test after selecting the menu item MCHK.

FEED or CUT Press the FEED (PRIOR) or CUT (NEXT) button in order to select other memory tests.

SCHK Sensor check

The displayed values are for checking the individual sensors (sensor check) and can be set by Service personnel.

➠ Extraneous light must be avoided when checking the sensors. Therefore keep the front cover and the housing cover closed during the sensor test.

FEED or CUT Press the FEED (TDI: PRIOR) or CUT (TDI: NEXT) button in order to select the individual sensors (if available).

❍ Continued overleaf.

Table

Use the following table to find out which sensors should appear when performing the sensor check with your device.

Sensors listed under "Options" appear only when the appropriate Option at your printer is activated.

❍ For detailed information on how to activate any options, refer to topic section "Info-printouts and parameters", under parameter SYSP/ PEPH.

	Sensors	Pxx Gap sensor, transmission	Rxx Gap sensor, reflex	Fxx Ribbon end sensor	LSxx Laminate end sensor	Hxx Printhead sensor	Txx Printhead temperature	Uxx Fullsize sensor	Uxx Separator sensor	Sxx Single Start sensor	Sxx Magazine sensor (reflex)	Cxx Hood switch	Mxx Material end sensor	Mxx Material bouncer sensor	MSxx Material end sensor	Ixx Infeed sensor	Kxx Cutter sensor	Wxx Rewinder arm sensor	Wxx Dispenser contact sensor	Xxx Dispenser mat. transport	Oxx Speed sensor	Dxx Magazine limit switch	Dxx Dispenser sensor	CLxx Colour sensor	Lxx Laminate end sensor
Devices																									
TTX x50 / Wildcats		X	X	X		X	X					X	X												
TTX 67x / W. plus		X	X	X		X	X					X	X												
TTX 350 / Ocelot		X	X	X							X	X													
TDI / XXtreme		X	X	X		X	X		X		X	X	X								X	X			
TTK / Texxtile		X	X	X		X	X	X		X		X	X												
Laminator		X	X		X	X			X	X		X		X	X										X
Options																									
Cutter																	X								
Infeed																X									
Fullsize								X																	
Dispenser																			X	X			X		
Colour																								X	
Rewinder																		X							

Tab. 4 Overview of all sensors, which may be displayed when calling the Sensor Check.

Table The following table shows for each sensor the value or value range which should be displayed by a properly operating sensor when performing a Sensor Check. The column "Description" tells the condition, under which this value is displayed (e.g. Ribbon end sensor, sensor in oscillator disc hole -> value 0).

Digital sensors Digital photoelectric switches (e.g. Ribbon end sensor) and micro switches show either 0 or 15, depending on the actual switching state.

Analog sensors Analog photoelectric switches have a value range instead of a single value. The displayed value should under the given conditions match this range.

Malfunction? Is a strongly deviating value or no value at all measured, the sensor should be newly adjusted or replaced and adjusted.

➠ Don´t infer from a correctly displayed value to a best possible setting of the sensor. The only way to get the correct setting is to measure the setting voltage at the corresponding test point.

❍ For detailed setting instructions refer to topic section "Service boards.

Display	Sensor type	Value	Description
Pxxx	Gap sensor (Light transmission)	7...9	without material (TTX 350: 12 without mat.)
		10...255	with material (TTX 350: 30 more than without material)
Rxxx	Gap sensor (Reflex)	200...255	reflex bar
		10...20	white material
F xx	Ribbon end sensor	0	sensor in oscillator disc hole (LS clear)
		15	sensor interrupted
LS xx	Laminate end sensor (only Laminator)	0	sensor in oscillator disc hole (LS clear)
		15	sensor interrupted
H xx	Print head sensor	0	print head in economy position (raised)
		15	print head in print position (lowered)
T xx	Printhead temperature (only for internal use, no setting possible)		
U xx	Full size gap sensor (Full size opt. activated)	0	without material
		15	with material
U xx	Separator sensor (only TDI)	0	magazine up (LS clear)
		15	magazine not up (LS interrupted)
S xx	Single start sensor	0	without material (LS clear)
		15	with material
S xx	Magazine sensor (Reflex, only TDI)	2...5	without material (LS clear)
		10...255	with material
C xx	Hood switch	0	hood closed
		15	hood open
M xx	Material end sensor	0	without material (LS clear)

Display	Sensor type	Value	Description
		15	with material
M xx	Material bouncer sensor	25...30	Material bouncer arm in resting position
		180...200	Material bouncer arm not in resting pos.
MS xx	Material end sensor (only Laminator)	0	without material (LS clear)
		15	with material
I xx	Infeed sensor (Infeed option activated)	20..30	without material
		as high as possible	with material
K xx	Cutter sensor (Cutter opt. activated)	>10	sensor open
		<10	LS clear
Wxxx	Rewinder arm sensor (Rewinder opt. activated)	0	min. value (LS level)
		255	max. value (LS level)
Wxxx	Dispenser contact sensor (Dispenser opt. activated)	<30	min. value (for contact lever open)
		>=250	max. value (for photoelectric reflex switch clear)
X xx	Dispenser mat. transport (Dispenser opt. activated)	0	min. value
		15	max. value
O xx	Speed sensor (only TDI)	0	without material
		15	with material
D xx	Magazine limit switch (only TDI)	0	magazine down (LS clear)
		15	magazine not down (LS interrupted)
D xx	Dispenser sensor (Dispenser opt. activated)	0	min. value
		15	max. value
CLxx	Colour sensor (Colour option activated)	0	LS clear
		15	LS interrupted
L xx	Laminate end sensor (only Laminator)	10	min. value (LS level)
		255	max. value (LS level)

Tab. 5 Some of the sensor abbreviations in the left side column and the corresponding figure in the column "Value" (=demand value) appear on the printer display if the Sensor Check is called. Which sensor abbrev. are displayed, depends on the printer type and configuration.

PCHK Demo print

Continuously running demo print with cut after each label.

ENTER Press the ENTER button in order to start the test print (accompanied by an acoustic signal). Press ENTER button again to stop the test print.

FEED Press the FEED or CUT (NEXT) button if the test print should not be started.

FACT Factory settings

All parameters are preset ex works to values specific to each device type. These factory settings can be restored at any time.

All parameters are then overwritten by the factory settings.

The respectively current setting can be checked from the STA0 info printout (see STA0 description).

➠ All data in the spooler, including that related to an interrupted print job, is then deleted!

ENTER After FACT has been selected, "YES?" blinks. Press the ENTER button in order to reset all parameters to the factory settings. This procedure is reported with the blinking INIT display. Afterwards the display OFF appears.

FEED Press the FEED or CUT (NEXT) button if the factory settings should not be reset.

SERV Only for Service

➠ Parameters only for authorised Service personnel!

NULL Only for Service

➠ Parameters only for authorised Service personnel!

HADJ Only for Service

➠ Parameters only for authorised Service personnel!

ACSC Only for Service: Scanner

➠ Parameters only for authorised Service personnel!

Activating the scanner.

HVxx Print head temperature

The print head temperature can be lowered or raised using the parameter HV. A "bolder" print can be achieved by increasing the temperature.

Optical features of setting the print head temperature	
Print head temperature	**Print result**
Optimum	High-contrast printing
Too low	Weak printing
Too high	Smudged print, characters too bold
Extremely high	Colour particles vaporize, the print is pale

The print head will be damaged by overheating if extremely high temperatures are used! Only set the temperature so that just a high-contrast print is the result.

On-line setting The temperature is set in on-line mode or under derived conditions

HVxx Press the FEED and CUT (NEXT) buttons simultaneously to show the setting value for the print head temperature

HV 1 Value for lowest print head temperature

HV99 Value for highest print head temperature

Progression Unit interval = 1

FEED/CUT button Press either the FEED button to increase the displayed value, or the CUT (NEXT) button to reduce the value

ENTER button Press the ENTER button to confirm the displayed value

Parameterlist in alphabetical order

<

<20H 27

A

ACSC 52
ADIS 18
ADJS 48
ASPD 18

B

BAUD 28
BCHI 17
BMOD 27

C

CBAK 24
CCLR 46
CDIS 19
CLAB 16
CLCK 38
CLEN 16
CLST 24
CMOD 22
CODE 36
COPY 39
CPOS 18
CSET 39
CSPD 18
CWID 19

D

D_HD 34
DBIT 28
DMOD 25
DOWN 45

E

EMUL 29
EXLO 38
EXTR 34

F

FACT 52
FBY 20
FMOD 31
FMOT 34

G

GAP 21

H

HADJ 52
HAND 28
HEAT 37
HRES 37
HVOF 38
HVxx 53

I

ICLR 47
IFAC 27
INFO 12

J

JCLR 44

L

LADJ 26
LAMP 26
LCLR 45
LMOD 33
LPOS 33
L-R 32
LREP 39
LSPD 26

M

MADJ 26
MCHK 48
MEND 40
MLEN 15
MPOS 19
MPSF 34
MSET 40
MTYP 15
MWID 16

N

NACH 30
NULL 52

O

OMOD 33
OTHR 45

P

PARI 28
PCHK 51
PEPH 41
PORT 27
PRID 28
PRTP 15
PSPD 15
PUNO 17
PUNS 31

S

SBIT 28
SCAN 40
SCHK 48
SCLR 44
SECF 33
SENS 30
SERR 40
SERV 52
SGMO 35
SMOD 34
SPOL 27
SSPD 21
STA0 12
STA1 12
STA2 13
STA3 13
STA4 14
SW01 32
SW02 32
SYSP 29

U

UPCA 17
USMD 39

X

XPOS 20

Y

YPOS 20

Index

A

Activate scanner ... 58
Applicator distance ... 23
Applicator speed ... 23
Area of application ... 3

B

Bar code height ... 22
Bar code plain copy line ... 22

C

Change label, setting ... 21
Character sets ... 36, 45
Characters ... 45
Colour card, formatting ... 52
Cut
  mode ... 28
  position ... 23, 24
  speed ... 23
  width ... 24

D

Data ... 34
  synchronisation ... 34
  transfer speed ... 34
Demo print ... 57
Dispense position ... 24
Dispenser
  Activate Dispenser Option ... 49
  Dispensing edge ... 40
  Dispensing mode ... 31
  Feed motor ... 40
Double cut function ... 24
Downloading logo/characters ... 51

E

Edge control input signal ... 41
EXTR ... 45

F

Factory settings ... 58
Feed without printing ... 27
Filter <20H ... 33
Font library ... 18

G

Gap detection ... 27
Gap offset ... 22
Gap sensing ... 45

H

Head temperature, lowering ... 43
Head voltage, offset ... 44
Hexdump ... 35

I

Image card, formatting ... 53
Infeed module, select ... 49
Info printouts ... 17
Interface type ... 33

L

Label length, setting ... 21
Label position ... 39
Laminate dancer, setting ... 32
Laminate end ... 39
Laminating speed ... 32
Laminator parameter menu, operation ... 5
Laminator parameters ... 32
Logo
  buffer ... 17
  expansion ... 44
Logo card, formatting ... 51
Loop control ... 38

M

Material
  bouncer arm, setting ... 32
  end detection ... 46
  length setting ... 20
  photoelectric switch ... 37
  thickness ... 23
  type ... 20, 39
  width ... 17
  width setting ... 21
Material end detection, threshold ... 46
Memory
  capacity ... 17
  check ... 54
  report ... 17
MMOD ... 39

N

National Character sets ... 36

O

Off-line menu structure ... 3
On-line/off-line stand-by ... 39
Only for Service ... 58

P

Parameter menu
  ALX720 ... 14
  TDI ... 12
  TTK ... 10
  TTX ... 6
  TTX 350 ... 8
  TTX Laminator ... 16

Parameter menu TTX/TDI, operation 4
Parity 34
Password 42
Perforator, activating 48
Peripheral devices 47
Photoelectric switch, start of the label 36
Print
head temperature 59
interpreter 35
job, delete 50
offset equalisation, colour 26
offset X 26
offset Y 26
speed 20, 24
Printer buffer, delete 50
Printer identification no. 34
Printer parameters 20

R

Read errors 46
Realtime clock 44
Reflex 36
Report parameter settings 17
Reprint last printed label 45
Reset 51
Resistance, print head 43
Reverse step after cut 30
Ribbon automatic economy 37

S

Scanner adjustment 54
Scanner mode 46
Second Feed 39
Feed length 40
Sensitivity, material photoel. switch 37
Sensor check 54
Service report 18
Setting instructions 3
Single job mode 40
Single start 45
SNGL 45
Special functions 51
Spooler mode 33
Spooler size 33
Stacker 40
Stop bit 34
System parameters 35

T

Textile stacker, select 49
Transparency 36

U

Update, new firmware 33